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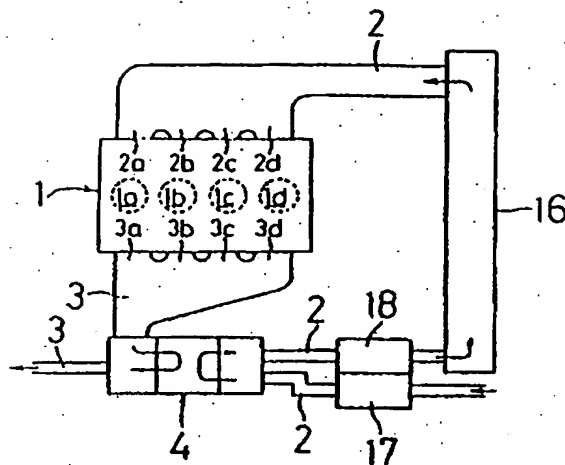
APPLICATION NUMBER : 59060084

APPLICANT : MAZDA MOTOR CORP;

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TITLE : SUCTION SYSTEM STRUCTURE OF
ENGINE WITH PRESSURE WAVE
SUPERCHARGER



ABSTRACT : PURPOSE: To make the most use of the performance of a pressure wave supercharger, by sucking the air through an air cleaner whose mesh is coarse into the pressure wave supercharger so that the suction resistance may be reduced, and sucking the air discharged from the pressure wave supercharger into an air cleaner whose mesh is fine into an engine so that the cleanliness of the air is further enhanced.

CONSTITUTION: After the air sucked from the atmosphere is filtered by a first air cleaner 17 whose mesh is coarsened so that dust having, for example, a size of 60-80 μ m or more may be removed and therefore damage to a pressure wave supercharger can be avoided, the air is sucked from a suction introduction port into the pressure wave supercharger 4. After the sucked air that is pressurized in the pressure wave supercharger 4 is filtered by a second air cleaner 18 whose mesh is fine so that dust having a size of, for example, 20 μ or below is removed so as not to hinder the performance of the engine, and then the air is cooled in an intercooler 16 and is sucked into the engine 1.

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